GS-1208M

Gigabit Switch

GS-1208M: 8-Port Web-Smart Gigabit Ethernet Switch

Key Features

- **Standard Compliance**
  - ---IEEE 802.3 10Base-T Ethernet (twisted-pair copper)
  - ---IEEE 802.3u 100Base-TX Ethernet (twisted-pair copper)
  - ---IEEE 802.3ab 1000Base-T Ethernet (twisted-pair copper)
  - ---ANSI/IEEE 802.3 Auto-negotiation
- **RoHS Compliance**
- **Subscriber Interface**
  - ---8 Gigabit Ethernet ports
  - ---Auto-negotiation
  - ---Provide the double tagging feature, which is useful for ISP application.
  - ---Provide the loop detection feature for unmanaged environments.
  - ---Supports TP interface auto MDI/MDI-X function for auto TX/RX swap
  - ---Supports 802.3x flow control pause packet for full-duplex
  - ---Provide these packets are longer than 1518 bytes, but shorter than 9728 bytes that is suitable for multimedia application.
  - ---Back pressure flow control for half-duplex
  - ---Supports 10/100Mbps auto-detect half/full duplex and 1000Mbps at full duplex
  - ---Connector: 8 RJ-45 ports
- **Performance**
  - **Switching capacity:**
  - ---8 Gigabit Ethernet ports with non-blocking wire-speed performance
  - ---Provide 4 K entry MAC addresses
  - ---128 KB on-chip frame buffer
  - **VLAN**
  - ---Port-base VLAN
  - ---IEEE802.1q tag-base VLAN, 4094 max
  - ---up to 8 active VLAN
  - **QoS**
  - ---Supports IPv4/v6, Mac, Port, Diffserv and 802.1p QoS with four level priority queue

Benefits

- **QoS with Four Priority Queues**
  The QoS(Quality Of Service) feature provides four internal queues to support four different classifications of traffic. High priority packet streams experience less delay inside the switch, which supports lower latency for certain delay-sensitive traffic. The GS-1208M could classify the packet as one of the four priorities according to 802.1p priority tag or DSCP.

- **Port Mirroring**
  This mechanism helps track network errors or abnormal packet transmission without interrupting the flow of data. Allow ingress traffic to be monitored by a single port that is defined as mirror capture port. The mirror capture port can be any 10/100 port, 10/100/1000 port. Mirroring multiple ports is possible but can create congestion at the mirror capture port.

- **Broadcast/Multicast/Unknown-Unicast Storm Control**
  To limit too many broadcast/multicast/unknown-unicast flooding in the network, broadcast/multicast storm control is used to restrict excess traffic. Threshold values are available to control the rate limit for each port. Packets are discarded if the count exceeds the configured upper threshold.

- **Trap Event for Exception Management**
  We use SNMP Trap mechanism to inform supervisor to know the instant abnormal status of the switch.

- **Build-in web-base management**
  Instead of using CLI interface, we provide a more convenient GUI for user. We just need to configure switch via Web Browser. It is more quickly for user to familiar with the method to control switch on the basis of this design.

Technical Specifications

- **LED Description**

	LED	Color	Function
Global	POWER	Green	-Lit when +5V power is coming up
Global	CPU	Green	-Blinks when CPU is active
Port 1-8	LINK/ACT	Green	-Lit when connection with remote device is good -Blinks when any traffic is present
Port 1-8	10/100/ 1000Mbps	Green /Amber	-Lit Green when TP link on 1000Mbps speed -Lit Amber when TP link on 100Mbps speed -Off when 10Mbps or no link occur

Gigabit Switch

Bandwidth Control

---Supports bandwidth rating per port ingress and egress rate limit 1000Mbps with 1Mbps increment

Port Trunk

---MAC-based trunking with automatic link failover, max four Ports with 4 trunking group

---Up to 4 ports for each group

Broadcast Storm

---Provide Broadcast Storm suppression that mechanism is used to protect regular traffic from an overabundance of broadcast or multicast traffic.

Port Mirroring

---Supports port mirroring, allowing ingress and /or egress traffic to be monitored by a single port designated as the mirror capture port.

Software Upgrade

---Supports Http firmware upgrade via web GUI

Overview

The GS-1208M Gigabit switch, an 8 port desktop Gigabit web smart switch, meets the demand of bandwidth. This desktop switch seamlessly integrates with the rest of the network through its auto-negotiating and non-blocking design. To break through the bottlenecks at the core of network, the switch provides up to 16Gbps aggregate bandwidth and seamless migration and the most cost effective method for bringing high-speed networking to the desktop. In addition, the switch implements the QoS (Quality of Service), Port Mirror, VLAN, Port Trunk. It is suitable for office application.

• Network Interface

Configuration	Connector	Port
10/100/1000Mbps TP (RJ-45)	TP(RJ-45)	1 to 8

• **Full Forwarding Packet Rate:** PPS (64 Bytes packets per second)

Forwarding Rate	Speed
14,880PPS	10Mbps
148,800PPS	100Mbps
1,488,000PPS	1000Mbps

• **Cable and Maximum Length**

Feature	Detailed Description
10Base-T	UTP Cat. 3, 4, 5 or up
100Base-TX	UTP Cat. 5 or up
1000Base-T	UTP Cat. 5 or up

• **Hardware Spec**

Feature	Detailed Description
Voltage	100~240 VAC
Frequency	50~60 Hz
Power Consumption	10W Max
Operation Temperature	0 to 40℃
Operation Humidity	10% to 90%
Storage Temperature	0 to 55℃
Storage Humidity	5% to 95%
Dimensions	27(H) x 159(W) x 102(D) mm
Safety	Complies with FCC Part 15 Class A & CE Mark

Ordering Information

Model	
GS-1208M	8-Port Web-Smart Gigabit Ethernet Switch